

**AMENDMENT****IN THE SPECIFICATION:**

Please replace paragraph [0073] with the following amended paragraph:

[0073]

Next, the standard thermal model M1 is calibrated by applying the above correlations to portions, which relate to the estimation of the temperature of the top heater 32 and the same of the bottom heater 33, of the standard thermal model M1, as shown by the following expressions 7 and 8 (step S24).

[Expression 7]

Temperature of the top heater 32 =  
Temperature estimated by standard thermal model M1 +

$$[Kt1, Kt2, Kt3, Kt4, Kt5] \cdot \begin{bmatrix} 0 \\ 0 \\ 0 \\ \text{Estimated Temperature of Temperature Sensor S4} \\ - \\ \text{Measured Temperature of Temperature Sensor S4} \\ 0 \end{bmatrix}$$

[Expression 8]

Temperature of the bottom heater 33 =  
Temperature estimated by standard thermal model M1 +

$$[Kb1, Kb2, Kb3, Kb4, Kb5] \cdot \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ \text{Estimated Temperature of Temperature Sensor S5} \\ - \\ \text{Measured Temperature of Temperature Sensor S5} \\ 0 \end{bmatrix}$$


---